

ESDBEST Cleaning & Maintenance Guide

Professional Care Guide for Two-Layer Rubber ESD Bench Mats and Floor Mats

1. Purpose

Proper cleaning preserves the electrical performance and service life of ESD mats while helping maintain a compliant Electrostatic Protected Area (EPA).

2. Recommended Cleaning Frequency

Light use: weekly. Normal production: 2–3 times per week. Heavy-duty or SMT production: daily spot cleaning and weekly deep cleaning.

3. Approved Cleaning Materials

Use ESD-safe mat cleaner or a mild neutral detergent diluted with clean water. Use a lint-free cloth or soft microfiber mop.

4. Avoid These Chemicals

Do not use wax, silicone polish, bleach, acetone, MEK, gasoline, strong solvents, abrasive pads or high-alkaline cleaners.

5. Cleaning Procedure

Disconnect the grounding cord, remove dust, wipe with approved cleaner, rinse if required, allow the mat to dry completely, reconnect the grounding cord and verify resistance before use.

6. Preventive Maintenance

Inspect grounding snaps, cords, surface damage, cuts, discoloration and contamination. Replace damaged accessories immediately.

7. Electrical Verification

Periodically measure RTT and RTG with a calibrated ESD resistance meter and maintain inspection records.

8. Storage

Store flat or rolled with the conductive layer inward in a clean, dry indoor environment away from direct sunlight and heat sources.

9. Service Life

The service life depends on usage, cleaning practices and operating conditions. Replace the mat if it no longer meets electrical specifications or is physically damaged.

10. Safety

Always follow ANSI/ESD S20.20 and IEC 61340-5-1 procedures when maintaining ESD workstations.

Maintenance Checklist

Inspection Item	Weekly	Monthly
Surface cleaned	☐	☐
Ground cord inspected	☐	☐
Snap connection checked	☐	☐
RTT measured		☐
RTG measured		☐
Physical damage inspection	☐	☐
Cleaning record updated	☐	☐

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